	CRIPTION	EQUIPMENT LIST (CONT.)							**	F H W A REGION NO, STATE FED. AID SHEET TOTAL REGION NO, STATE PROJ. NO. SHEETS		
	01(11-1-10)(A1. Equipment to be supplied by the State Highway Administration				EQUIPMENT LIST (CONT.)				REGION NU, PROJ. NO. SHEETS		
I. General	lation of a new traffic	Specification Item No. Quantity Units Section Description				B. Equipment to be furnished and/or installed by the Contractor.				3 MD		
control signal	ndication and actuation,	1	EA		modified (30" x 30") ground				ication			
the intersect	pre-emption for light rail at Fuel Farm Road in Anne			mount		Item No. Quant	ity Units	3	ection Description	PHASING SEQUENCE CHART		
Arundel County direction.	y. Elm F	oad is ass	umed to run in a north/south	1	EA	Speci	al sign, "TRAIN CROSSING ON	16	EΑ	811	Furnish and install	THATING DEQUENCE CHARLE
	0 1:						" (20" x 52") ground mount				electrical handhole.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 16
II. Intersection (•		operate in a fully-actuated	1	EΑ	Spec: 72")	al Sign, "WHEN FLASHING" (10" x ground mount	36	SF	813	Install overhead sign -	1 2 3 4 5 6 7 8 9 10 11 12 13 14 16
mode with Sout	ft turn lane operating in an								for signals.			
.	exclusive phase. Northbound and southbound Elm Road shall operate concurrently. Eastbound and westbound Fuel Farm Road						ENT LIST	58	SF	813	Install ground mounted sign	
shall also ope	A pedestrian phase shall buth leg of Elm Road, During	A2. Equipment to be supplied by the Mass Transit Administration				4.0	5 A	0.4.4		Phase 1 & 6 -G -G G R R R R R R R DW DW		
pre-emption, r	pre-emption, northbound and southbound Elm Road shall operate				!! !!!		fication Section	18	EA	814	Install signal head - any type	1 & 6 Change
concurrently.		Item No. Quanti	-		Section Description	1	EΑ	×××	Furnish and install	Phase 2 & 6 R R G G G G R R R R R DW DW DARK -		
III. Special Notes	III. Special Notes				EΑ	xxx	Light Rail Vehicle Signal Head — Pedestal mount	·		,,,,,	internally illuminated	2 & 6 Change R R Y Y Y R R R R R DW DW DARK
1. The contact persons for District # 5 are as follows:					EQUIPM	ENT LIST	660	LF	815	sign Furnish and install saw	Phase 4 & 8 R R R R R G G G G DW DW DARK	
			Mr. Lawrence Elliott	B. Equipment to be furnished and/or			r installed by the Contractor.				cut for signal.	4 & 8 Change RRRRRYYYYYDW DW DARK
District Phone # (Asst. District Engineer – Traffic	Specification				1	EA	816	Install eight phase	Phase 4 ALT R R R R R R R R G G FL DW DW DARK
			Phone # (410) 841-5450	Item No. Quantity Units Se			Section Description				(fully actuated) controller and cabinet –	Ped Clear R R R R R R R R G G FL FL DW DARK
Mr. Raymo			Mr. John Mays	1	LS	104	Maintanemce of traffic				base mount.	
Asst. Dis Maint.	strict Er	gineer	Asst. District Engineer Utility	5	EA	205	Test pit excavation	1	EA	SP	Furnish and install a 21	
Phone # ((410) 841	-5450	Phone # (410) 841-5450	180	LF	555	Furnish and install 24				ft. steel pole with a 50 ft. mast arm (Note: Four	N N N N N N N N N N N N N N N N N N N
Mr. Richo				-		-	in. white permanent preformed pavement				- 1 3/4 in. x 90 in. anchor bolts).	PRE-EMPT CHANGE A A T T T T T R A A A A A A BW DW
Chief, Tr Phone # (eration Di -7630	Vision				pretormea pavement marking tape	4	EΑ	000		Flashing Operation FL/R FL/FL/FL/FL/FL/FL/FL/FL/FL/FL/FL/R R R R R R R R R R R R R R R R R R R
			e following standard plates	180	LF	555	Furnish and install 12	Ĭ	LΑ	829	Furnish and install 21 ft. steel pole with twin	Operation
for maint	tenance c	f traffic:	105.00, 105.01, 105.02,				in. white permanent preformed pavement				70 ft. and 38 ft. mast arms (Note: Four - 2 in.	
			05.106, 105.108, 105.110, 105.208, 105.210, 105.212.				marking tape				x 90 in. anchor bolts.	
	Ε	QUIPMENT	LIST	15.5	CY	801	Furnish and install	1	EA	SP	Furnish and install a 21	
A1. Fauipment to be	A1. Equipment to be supplied by the State Highway Administration						concrete for signal foundation.				ft. steel pole with a 70 ft. mast arm (Note: Four	
		Specific		5	EΑ	804	Furnish and install				- 2 in. x 90 in. anchor bolts).	
Item No. Quantity	Units		tion Description	3	LA	004	ground rod - 3/4 in.	1	EA	822	Use existing disk and as-	
1 .	EA	814	8 in. 1 way 3 section				diameter x 10 ft.	·	27.	022	build traffic control	WIRING DIAGRAM
			(RA,YA,GA) signal head — mast arm mount,	70	LF	805	Furnish and install 4 in. schedule 40 rigid PVC				signal	LW
1	EA	814	12 in. 1 way 3 section				conduit - Trenched.	1	EA	SP	Furnish and install 10 ft. breakaway pedestal	RAILROAD MANHOLE —
j '	LA	014	(RA,YA,GA) signal head -	80	LF	805	Furnish and install 2 in.				pole	AA 7
			mast arm mount.				schedule 40 rigid PVC conduit - encased in	3	ΕA	SP	Furnish and install	
2	EA	814	12 in. 1 way 3 section (R.Y.G.) optically				conc.				14 ft. breakaway pedestal pole	
			programed signal head -	40	LF	805	Furnish and install 3 in.	4	ΕA	×××	Furnish and install	Y, AA
			mast arm mount.				schedule 80 rigid PVC conduit – pushed	·	27.	~~~	breakaway based support	N.Z.
8	EA	814	12 in. 1 way 3 section (R,Y,G) signal head —	1580	<u>L</u> F	805	Furnish and install 2 in.				system.	
			mast arm mount.				schedule 40 rigid PVC conduit – Trenched.	2	EA	×××	Install pushbutton and sign.	A-C.Z
2	EA	814	12 in. 1 way 1 section	50		805	Furnish and install 1 in.					XLW
			(Y) signal head - pole mount.	30	<u>_</u> 1	003	liquid tight flexible					H (
1	EΑ	814	12 in. one-way 2 section				non-metallic conduit for detector wire sleeve.					B E W L W
			pedestrian signal head pole mount	250	LF	805	Furnish and install 4 in.					A A A
		0.4.4	·	200	_;	003	schedule 80 rigid PVC				WIDING KEY	LW R D.O. 1
1	EA	814	12 in. one-way 2 section pedestrian signal head -	000	, -	0.05	conduit pushed.	Δ-(s – 7 CONDL	LICTOR FLE	WIRING KEY CTRICAL CABLE (NO. 14 AWG)	$A-C\cdot R\cdot Y\cdot Z\cdot AA$ E
			pole mount	280	LF	805	Furnish and install 2 in. schedule 80 rigid PVC		FOR V	VEHICLE S	IGNAL HEAD	LW P
3	EA	816	Eight-phase (fully actuated controller and				conduit pushed.	H • J –N	CONDL – 1 – 1 FOR V	UCTOR ELE VEHICLE S	CTRICAL CABLE (NO. 14 AWG) IGNAL HEAD	M G
			cabinet) - base mount	1	EA	807	Furnish and install control and distribution	N. 0) - 5 CONDL	UCTOR ELE	CTRICAL CABLE (NO. 14 AWG)	G,Z_{-}
2	EA	817	Pedestrian pushbutton and				equipment.	D_\			N SIGNAL HEAD AND PUSHBUTTON CTRICAL CABLE (NO. 14 AWG)	
			R10-3c sign	440	LF	810	Furnish and install No. 6		ALUMI	INUM SHIE	LDED FOR LOOP DETECTOR	P,Q,BB → A-C,G,P,Q,R,Y,
10	EA	×××	Two channel loop detector				AWG standard bare copper ground wire.				ANDED BARE COPPER WIRE (NO. 6	6 AWG)
			amplifier (delayed output)	540	LF	040	·	AA	JUNUU c ATRNI	OCTUR ELE ALL TO LR	CTRICAL CABLE (NO. 14 AWG) V SIGNAL SITE NO. 3 (SEE SHEE	
				540	<u>L</u> †	810	Furnish and install electrical cable 1-	BE	3 - 7 CONDL	UCTOR ELE	CTRICAL CABLE (NO. 14 AWG)	
94	SF	813	Sheet aluminum signs				conductor No. 4 AWG - THHN/THWN		BE IN	NSTALLED	IGNAL HASEWIRE NTERCONNECT CA TO THE TRAFFIC SIGNAL CONTROL	NLER AT MD 170
		g=	consisting of:	2750	LF	810	Furnish and install	i b	AND E LOOP WI	ELM ROAD		EXISTING BG&E TRANSFORMER
2	EA	D3-2 (va mast arm	x 16 in.) "Elm RD." sign mount	2130	L. ř	310	electrical cable - 2		S - PROPOSE		SERVICE	UV
1	EΑ	R3-5 (L)	(30" x 36") mast arm mount				conductor (Aluminum shielded).	ſ	RF\	VISIONS	APPROVALS	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
	EA		$(30" \times 36")$ mast arm mount	3200	LF	810	Furnish and install	Ì	(VL)		/// NOTALO	
			•			-	electrical cable - 5 conductor (No. 14 AWG).			<u>-</u> -	CHIEF, SIGNAL DESIGN SECTION	Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION
	EA		" x 30") ground mount	7 400		040						
2	EA	R10-6b (24" x 30") ground mount	3400	LF	810	Furnish and install electrical cable - 7				ASST. DISTRICT ENGINEER, TRAFFIC	ORIGINAL S. CHERNACK/ROB CICCHINI ELM ROAD AT FUEL FARM RD
2	EA	R10-3c (3" x 12") pole mount				conductor (No. 14 AWG).	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			THOUSE STOREGING THOUSE	DES. BY S. CHERNACK/D. PETERS GENERAL INFORMATION SHEET
2	EΑ	W3-3 (36	" x 36") ground mount	2490	LF	810	Furnish and install loop				PUEE TRAFFIA PARAMETERIA RESIGNA	
							wire encased in flexible tubing (No. 14 AWG).	ONSULTING ENGINEERS COLUMBIA, MARYLAND		***************************************	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	TECCHE NO
								OSEOMOIN, WAIN!EANU				DATE: A00031 1330 F.A.P. NO
					77 5 700 40 44 44 44 44 44 44	·····					DIRECTOR, OFFICE OF TRAFFIC & SAFETY	SCALE: NTS S.H.A. NO 4_ OF